

Notice of Allowability

Application No.

10/092,945

Examiner

Andrew C. Flanders

Applicant(s)

FAY ET AL.

Art Unit

2615

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the interview between Examiner and Applicant's representative on 15 September 2006.
2. ☒ The allowed claim(s) is/are 1, 4-6, 8, 11-22 and 44-73.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David A. Morasch on 15 September 2006.

The application has been amended as follows:

1. (currently amended) One or more computer readable media ~~comprising~~ encoded with computer executable instructions that, when executed as a script file, direct a computing based audio generation system to:

initiate an audio rendition of a video event when, during execution of a text section of the script file, a text label designates when to initiate the audio rendition from audio content maintained within the script file, the audio content being identified in the script file with a content label corresponding to the text label, where the audio content is auto-referable and generated as the audio rendition without a reference in the text section to identify a location of the audio content, and without an instruction in the text section to render the audio content; and

Art Unit: 2615

instantiate one or more audio processing components of the computing based audio generation system that are configured to generate the audio rendition corresponding to the video event, an individual audio processing component having interface methods that are callable by the script file, the one or more audio processing components of the computing based audio generation system being instantiated as a synthesizer component to process audio instructions to generate streams of audio wave data, audio buffers to process the audio wave data, and logical buses that each correspond to one of the audio buffers, where each of the multiple streams of audio wave data are assigned to one or more of the logical buses such that a logical bus receives one or more of the streams of audio wave data from the synthesizer component and routes the streams of audio wave data to the corresponding audio buffer.

2 3. (canceled)

4. (previously presented) One or more computer readable media as recited in claim 1, wherein the audio content is generated as the audio rendition when a script processor executes the script file and determines that the content label corresponds to the text label.

5. (currently amended) One or more computer readable media as recited in claim 1, further ~~comprising~~ encoded with computer executable instructions that, when

executed, direct the computing-based audio generation system to initiate a second audio rendition when, during execution of the text section of the script file, a second text label designates when to initiate the second audio rendition from additional audio content maintained within the script file, the additional audio content being identified in the script file by a reference that is identified with a reference label corresponding to the second text label, where the additional audio content is auto-referable and generated as the second audio rendition during execution of the text section of the script file.

6. (previously presented) One or more computer readable media as recited in claim 5, wherein the additional audio content is generated as the second audio rendition when a script processor executes the script file and determines that the reference label corresponds to the second text label.

7. (canceled)

8. (currently amended) One or more computer readable media as recited in claim 1, further ~~comprising~~ encoded with computer executable instructions that, when executed, direct the computing-based audio generation system to initiate a second audio rendition when, during execution of the text section of the script file, at least a second text label designates when to initiate the second audio rendition from additional audio content maintained within the script file, the additional audio content being

Art Unit: 2615

identified in the script file with a second content label corresponding to the at least second text label; wherein

the audio content is generated as the audio rendition when a script processor executes the script file and determines that the content label corresponds to the text label; and

the additional audio content is generated as the second audio rendition when the script processor executes the script file and determines that the second content label corresponds to the at least second text label.

9 10. (canceled)

11. (previously presented) One or more computer readable media as recited in claim 1, wherein the interface methods of the individual audio processing component are callable by the script file via an iDispatch interface between the script file and the individual audio processing component.

12. (currently amended) One or more computer readable media as recited in claim 1, further ~~comprising~~ encoded with computer executable instructions that, when executed, direct the computing-based audio generation system to:

instantiate a performance manager that includes at least one audio segment having one or more audio content components, each audio content component configured to generate the audio instructions from the audio content; and

instantiate an audio rendition manager that includes the one or more audio rendering components configured to process the audio instructions to render the audio rendition corresponding to the audio content.

13. (currently amended) One or more computer readable media as recited in claim 12, further ~~comprising~~ encoded with computer executable instructions that, when executed, direct the computing-based audio generation system to instantiate the performance manager when an application program initiates execution of the script file, the performance manager being instantiated as a component object having an interface that is callable by the application program.

14. (currently amended) One or more computer readable media as recited in claim 12, further ~~comprising~~ encoded with computer executable instructions that, when executed, direct the computing-based audio generation system to instantiate the performance manager as a component object having interface methods that are callable by the script file via a translation interface between the script file and the performance manager.

15. (previously presented) One or more computer readable media as recited in claim 14, wherein the translation interface is an iDispatch application.

16. (currently amended) One or more computer readable media as recited in claim 12, further ~~comprising~~ encoded with computer executable instructions that, when executed, direct the computing-based audio generation system to instantiate the audio rendition manager when an application program initiates execution of the script file, the audio rendition manager being instantiated as a component object having an interface that is callable by the application program.

17. (currently amended) One or more computer readable media as recited in claim 12, further ~~comprising~~ encoded with computer executable instructions that, when executed, direct the computing-based audio generation system to instantiate the audio rendition manager as a component object having interface methods that are callable by the script file via a translation interface between the script file and the audio rendition manager.

18. (previously presented) One or more computer readable media as recited in claim 17, wherein the translation interface is an iDispatch application.

19. (currently amended) One or more computer readable media as recited in claim 12, further ~~comprising~~ encoded with computer executable instructions that, when executed, direct the computing-based audio generation system to monitor one or more parameters of the audio segment to determine when to input the audio content to the audio segment to render the audio content.

20. (currently amended) One or more computer readable media as recited in claim 12, further ~~comprising~~ encoded with computer executable instructions that, when executed, direct the computing-based audio generation system to instantiate the performance manager when an application program initiates execution of the script file, and monitor one or more parameters of the application program to determine when to input the audio content to the audio segment to render the audio content.

21. (currently amended) One or more computer readable media as recited in claim 12, further ~~comprising~~ encoded with computer executable instructions that, when executed, direct the computing-based audio generation system to instantiate a script track as a component of the audio segment, the script track configured to monitor one or more parameters of the audio segment to determine when to input the audio content to the audio segment to render the audio content.

22. (currently amended) One or more computer readable media as recited in claim 12, further ~~comprising~~ encoded with computer executable instructions that, when executed, direct the computing-based audio generation system to instantiate the performance manager when an application program initiates execution of the script file, and instantiate a script track as a component of the audio segment, the script track configured to monitor one or more parameters of the application program to determine when to input the audio content to the audio segment to render the audio content.

23 43. (canceled)

44. (previously presented) A method for managing audio generation with a script file, comprising:

instantiating a performance manager that includes at least one audio segment having one or more audio content components, each audio content component generating audio instructions from received audio content; and

instantiating an audio rendition manager that includes one or more audio rendering components for processing the audio instructions to generate an audio rendition corresponding to the audio content, the one or more audio rendering components of the audio rendition manager including a synthesizer component to process the audio instructions to generate streams of audio wave data, audio buffers to process the audio wave data, and logical buses that each correspond to one of the audio buffers, where each of the multiple streams of audio wave data are assigned to one or more of the logical buses such that a logical bus receives one or more of the streams of audio wave data from the synthesizer component and routes the streams of audio wave data to the corresponding audio buffer.

45. (original) A method for managing audio generation as recited in claim 44, wherein instantiating the performance manager is in response to an application program initiating execution of the script file.

46. (original) A method for managing audio generation as recited in claim 45, wherein the performance manager is instantiated as a component object having an interface that is callable by the application program.

47. (original) A method for managing audio generation as recited in claim 44, wherein the performance manager is instantiated as a component object having interface methods that are callable by the script file via a translation interface between the script file and the performance manager.

48. (original) A method for managing audio generation as recited in claim 47, wherein the translation interface is an iDispatch application.

49. (original) A method for managing audio generation as recited in claim 44, wherein instantiating the audio rendition manager is in response to an application program initiating execution of the script file.

50. (original) A method for managing audio generation as recited in claim 49, wherein the audio rendition manager is instantiated as a component object having an interface that is callable by the application program.

51. (original) A method for managing audio generation as recited in claim 44, wherein the audio rendition manager is instantiated as a component object having

interface methods that are callable by the script file via a translation interface between the script file and the audio rendition manager.

52. (original) A method for managing audio generation as recited in claim 51, wherein the translation interface is an iDispatch application.

53. (original) A method for managing audio generation as recited in claim 44, wherein instantiating the performance manager is in response to an application program initiating execution of the script file, and the method further comprising monitoring one or more parameters of the application program to determine when to input the audio content to the audio segment.

54. (original) A method for managing audio generation as recited in claim 44, further comprising monitoring one or more parameters of the audio segment to determine when to input the audio content to the audio segment.

55. (original) A method for managing audio generation as recited in claim 44, further comprising instantiating a script track as a component of the audio segment, the script track monitoring one or more parameters of the audio segment to determine when to input the audio content to the audio segment.

56. (original) A method for managing audio generation as recited in claim 44, wherein instantiating the performance manager is in response to an application program initiating execution of the script file, and the method further comprising instantiating a script track as a component of the audio segment, the script track monitoring one or more parameters of the application program to determine when to input the audio content to the audio segment.

57. (currently amended) One or more computer-readable media ~~comprising~~ encoded with computer-executable instructions that, when executed, direct a computing system to perform the method of claim 44.

58. (currently amended) One or more computer-readable media ~~comprising~~ encoded with computer-executable instructions that, when executed, direct a computing system to perform the method of claim 47.

59. (currently amended) One or more computer-readable media ~~comprising~~ encoded with computer-executable instructions that, when executed, direct a computing system to perform the method of claim 51.

60. (currently amended) One or more computer-readable media ~~comprising~~ encoded with computer-executable instructions that, when executed, direct a computing system to perform the method of claim 55.

61. (currently amended) One or more computer-readable media ~~comprising~~ encoded with computer executable instructions that, when executed, direct a computing system to perform a method comprising:

executing a multimedia application;

rendering a video event of the multimedia application;

receiving a request from the multimedia application to create an audio generation system to generate an audio rendition corresponding to the video event;

in response to receiving the request, executing a script file to create the audio generation system, the script file comprising computer executable instructions that further direct the computing system to perform:

instantiating a performance manager that includes at least one audio segment having one or more audio content components, each audio content component generating audio instructions from received audio content; and

instantiating an audio rendition manager that includes one or more audio rendering components for processing the audio instructions to generate the audio rendition, the one or more audio rendering components of the audio rendition manager including a synthesizer component to process the audio instructions to generate streams of audio wave data, audio buffers to process the audio wave data, and logical buses that each correspond to one of the audio buffers, where each of the multiple streams of audio wave data are assigned to one or more of the logical buses such that a logical bus receives one or more of the streams of audio wave data from the

synthesizer component and routes the streams of audio wave data to the corresponding audio buffer.

62. (previously presented) One or more computer-readable media as recited in claim 61, wherein the performance manager is instantiated as a component object having an interface that is callable by the script file.

63. (original) One or more computer-readable media as recited in claim 61, wherein the performance manager is instantiated as a component object having interface methods that are callable by the script file via a translation interface between the script file and the performance manager.

64. (previously presented) One or more computer-readable media as recited in claim 61, wherein the audio rendition manager is instantiated as a component object having an interface that is callable by the script file.

65. (original) One or more computer-readable media as recited in claim 61, wherein the audio rendition manager is instantiated as a component object having interface methods that are callable by the script file via a translation interface between the script file and the audio rendition manager.

66. (original) One or more computer-readable media as recited in claim 61, wherein the script file further comprises computer executable instructions that further

direct the computing system to perform instantiating a script track as a component of the audio segment, the script track monitoring one or more parameters of the audio segment to determine when to input the received audio content to the audio segment.

67. (previously presented) One or more computer-readable media as recited in claim 61, wherein the script file further comprises computer executable instructions that further direct the computing system to perform instantiating a script track as a component of the audio segment, the script track monitoring one or more parameters of the multimedia application to determine when to input the received audio content to the audio segment.

68. (currently amended) One or more computer readable media ~~comprising~~ encoded with computer executable instructions that, when executed as a script file, direct an audio generation system to:

 instantiate a performance manager that includes at least one audio segment having one or more audio content components, each audio content component configured to generate audio instructions from received audio content; and

 instantiate an audio rendition manager that includes one or more audio rendering components configured to process the audio instructions to generate an audio rendition corresponding to the audio content, the one or more audio rendering components of the audio rendition manager including a synthesizer component to process the audio instructions to generate streams of audio wave data, audio buffers to process the audio

wave data, and logical buses that each correspond to one of the audio buffers, where each of the multiple streams of audio wave data are assigned to one or more of the logical buses such that a logical bus receives one or more of the streams of audio wave data from the synthesizer component and routes the streams of audio wave data to the corresponding audio buffer.

69. (currently amended) One or more computer readable media as recited in claim 68, further ~~comprising~~ encoded with computer executable instructions that, when executed, direct the audio generation system to instantiate the performance manager and the audio rendition manager when an application program initiates execution of the script file, the performance manager being instantiated as a component object having an interface that is callable by the application program, and the audio rendition manager being instantiated as a component object having an interface that is callable by the application program.

70. (currently amended) One or more computer readable media as recited in claim 68, further ~~comprising~~ encoded with computer executable instructions that, when executed, direct the audio generation system to instantiate the performance manager as a component object having interface methods that are callable by the script file via a translation interface between the script file and the performance manager, and to instantiate the audio rendition manager as a component object having interface

methods that are callable by the script file via the translation interface between the script file and the audio rendition manager.

71. (currently amended) One or more computer readable media as recited in claim 68, further ~~comprising~~ encoded with computer executable instructions that, when executed, direct the audio generation system to determine when to input the audio content to the audio segment to generate the audio rendition.

72. (currently amended) One or more computer readable media as recited in claim 68, further ~~comprising~~ encoded with computer executable instructions that, when executed, direct the audio generation system to instantiate a script track as a component of the audio segment, the script track configured to monitor one or more parameters of the audio segment to determine when to input the audio content to the audio segment to generate the audio rendition.

73. (currently amended) One or more computer readable media as recited in claim 68, further ~~comprising~~ encoded with computer executable instructions that, when executed, direct the audio generation system to instantiate the performance manager and the audio rendition manager when an application program initiates execution of the script file, and to instantiate a script track as a component of the audio segment, the script track configured to monitor one or more parameters of the application program to

Art Unit: 2615

determine when to input the audio content to the audio segment to generate the audio rendition.

Allowable Subject Matter

Claims 1, 4-6, 8, 11-22 and 44-73 are allowed.

The following is an examiner's statement of reasons for allowance:

Claims 1, 4-6, 8, 11-22 and 44-73 are allowable for the reasons set forth in the Final Rejection mailed 23 May 2006. Additionally, to overcome the 101 issues, the computer readable medium is read and thus limited to include only the actual physical media disclosed in lines 1 – 11 on p. 51 and not the communication media as disclosed in lines 19 – 25 on p. 51 and lines 1 – 4 on p. 52 as agreed upon by Examiner and Applicant's representative (See the attached interview summary)

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew C. Flanders whose telephone number is (571) 272-7516. The examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached on (571) 272-7546. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



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SUPERVISORY PATENT EXAMINER

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